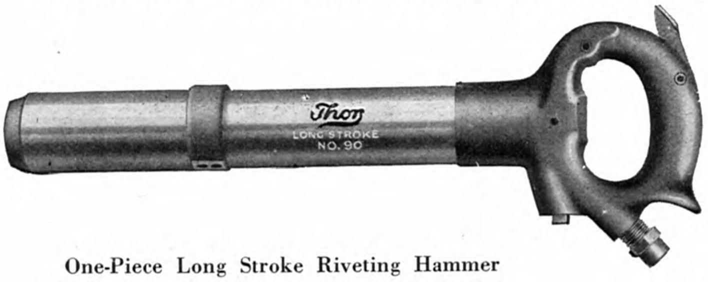
Pneumatic Tools

"Thor" Pneumatic Riveting Hammer

The main feature and the great advantage of this long-stroke riveting hammer is in its one-piece construction, the handle, barrel and valve chamber being a one piece steel forging. This obviates the necessity of using couplings, clamps, keys, lock-nuts, and other complicated mechanism, which frequently break, become loose and cause considerable delay, annoyance and expense by the necessity of their having to be renewed or tightened.

The main valve lies parallel with the main bore, but is not directly operated with the air on the downward stroke. When the piston returns, it opens an auxiliary valve which admits a slight amount of air. After the piston has started downward, the main valve opens. Therefore, the piston from a gentle start gets an extremely forceful and quick acting blow and a quick return.



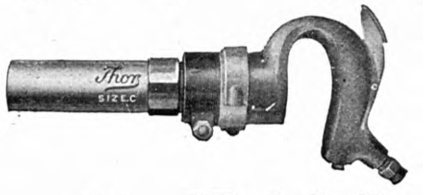
One-Piece Long Stroke Riveting Hammer

ONE-PIECE LONG-STROKE RIVETER
FOR DRIVING 1⅛" RIVETS

Size	Stroke	Piston Diam.	Blows per min.	Weight Lbs.	Air Used	Length	Use Hose I. D.
90	9"	1 1/16"	700	22	23	20½"	¾"

"Thor" Chipping and Calking Hammer

The A, B, C, and D Chipping, Calking and Flue Beading Hammers are made with a single valve and have been designed for every purpose for which this class of tools is used such as chipping, calking, flue beading, and light riveting. Special attention has been given to making a hammer that would stand up under all conditions, and at the same time be simple in construction and develop the maximum power.



Chipping, Calking and Flue Beading Hammer

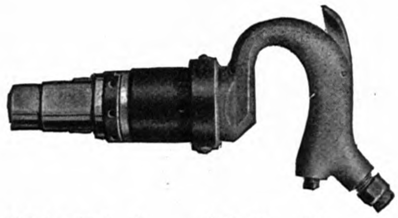
CHIPPING, CALKING AND FLUE BEADING
HAMMER FOR GENERAL CHIPPING
AND CALKING

Size	Stroke	Piston Diam.	Blows per min.	Weight Lbs.	Air Used	Length	Use Hose I. D.
C	3"	1 1/16"	1600	12½	15	14¾"	½"

"Thor" Light Scaling Hammer

The size M. Light Chipping and Scaling Hammer is made with a ¾ inch stroke and a ¾ inch piston diameter. It weighs 5½ pounds. Size N has a 1¼ inch stroke and a 15/16 inch piston diameter, and weighs 7 pounds. These types are adapted for very light chipping and scaling and for cleaning paint or rust.

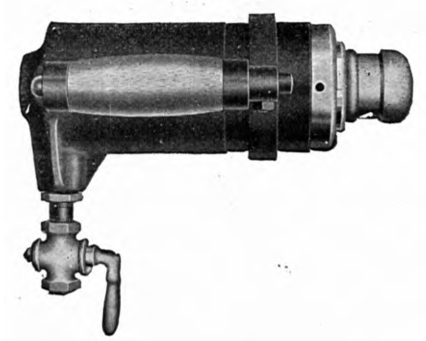
The principal feature of Thor Chipping Hammers consists of an entirely new valve mechanism, the valve block consisting of two solid cylindrical parts, hardened and ground. The valve is a cylindrical shell (hardened and ground) on the outside of the valve block, with wearing surface covering practically the entire block. When the handle is on, the valve is entirely protected. The wearing surface is many times larger in proportion to its weight than any other hammer made, and all the wearing surfaces are hardened.



Light Chipping and Scaling Hammer

"Thor" Pneumatic Holder-On

Thor Pneumatic Holders-On are of the single piston type made with a heavy case—hardened steel plunger, with ample area to hold a rivet against the work and provided with a spring pressed plunger to hold the rivet set. The air inlet between throttle and holder-on plunger is provided with check valve to admit air under the plunger slowly and prevent the plunger from shooting out too fast and, at the same time, relieve the air quickly. The cylinder is cast steel in one piece, which absolutely prevents leakage of air or the center shifting.



Pneumatic Holder-On

PNEUMATIC HOLDER-ON—LONG

Size No.	Length Over-all		Diam. of Piston	Length of Stroke	Out-side Diam.	Distance from Center to Outside	Weight Pounds
	With Set and Center	Without Set or Center					
1	11⅜"	8¾"	3⅛"	4"	3½"	1¾"	19

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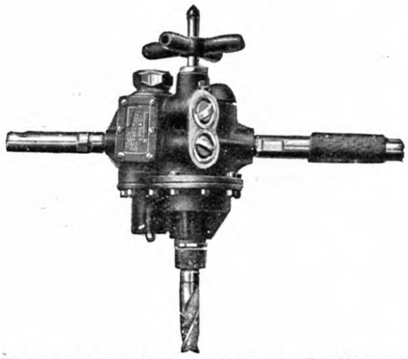
Pneumatic Tools

"Thor" Piston Air Drill

Thor Piston Air Drills are equipped with Thor Pressed Steel Connecting Rods and Pistons fabricated from Vanadium Steel. The Rods, Pistons and Straps are formed from blanks cut from sheet Vanadium Steel.

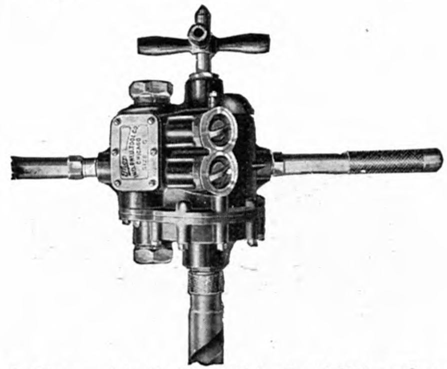
The Corliss Valves used in Thor Drills are so placed that the live air, which is magazined in the large chamber to the rear of the valves, is admitted over the full width of the edge which is a distance of but the thickness of the valve bushing and cylinder wall from the piston. This distance is equal on all four cylinders. Extremely smooth action results from this construction.



No. 2 Piston Air Drill—29/32-inch Drilling Capacity

The eccentric and eccentric straps are made with exceptionally large bearings. Oil holes are provided for lubrication purposes.

The crank-shaft and roller bearings are made from the highest grade material obtainable. The roller retainers are now made in one piece. Friction has been reduced by the most practical means possible—roller bearings. The strength of rollers as compared with other anti-friction bearings permits smaller diameters, which results in greater compactness and reduces the speed under which the larger bearing must operate.



No. 3 Piston Air Drill—1¼-inch Drilling Capacity

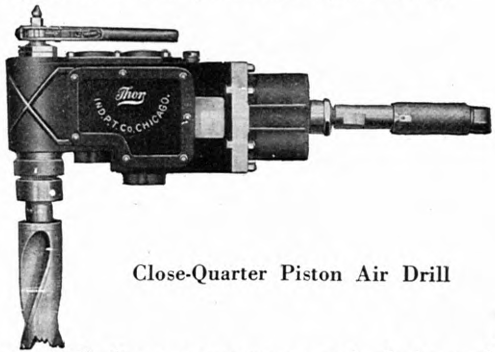
The Telescopic Feed Screw is compact and has a large range of adjustment because the inner sleeve is threaded both inside and out allowing of approximately twice the range of a simple feed screw. Drills, reamers or taps may be forced from the spindle socket by means of the ejecting pin by simply screwing down the feed screw.

The No. 2 Thor Piston Air Drill is non-reversible and equipped with the Telescopic Screw-Feed, or Grip Handle when ordered. No. 2 Morse Taper Socket is used for drills up to 29/32 inch. This machine weighs 24 pounds. Speed, 575 R.P.M.

The No. 3 Thor Piston Air Drill is non-reversible and equipped with the Telescopic Screw-Feed, or Grip Handle when ordered. No. 3 Morse Taper Socket is used for drills up to 1¼ inch. This machine weighs 40 pounds. Speed, 280 R.P.M.

"Thor" Close-Quarter Air Drill

These Close-Quarter Piston Air Drills, non-reversible, are designed for use in extremely close places where the ordinary drill cannot be operated. They are built in two sizes—No. 8, equipped with a No. 3 Morse Taper Socket, and No. 9, equipped with No. 4 Morse Taper Socket.



Close-Quarter Piston Air Drill

The spindle is at one extreme end of the tool, and the motor is at the opposite end. A poppet valve throttle controls the speed and power.

Branch Offices

The Branch Offices of the Independent Pneumatic Tool Company are located at 1463 Broadway, New York, N. Y., 1208 Farmers Bank Building, Pittsburgh, Pa.; 1103 Citizens Building, Cleveland, Ohio; 61 Fremont Street, San Francisco, Cal.; 1721 Jefferson County Bank Building, Birmingham, Ala.; 736 David Whitney Building, Detroit, Mich.; 334 St. James Street, Montreal, Quebec; 209 First Avenue, South, Seattle, Wash.; 409-411 East Third Street, Los Angeles, Cal.; 109 West Second Street, South, Salt Lake City, Utah; 1621-1639 Seventeenth Street, Denver, Col.; 1142-1144 Homer Street, Vancouver, B. C.; 32 Front Street, W., Toronto, Ontario; London; Paris; Berlin; Tokio; Yokohama.

PNEUMATIC DRILLS

Cylinder Standard	Size No.	Description	Capacity		Morse Taper Socket	Free Speed R.P.M.	Air Used per min. Cu.' t.	Length Over-all	Weight Pounds	Distance from Side to Center of Spindle
			Drill	Ream						
4 Cylinders 1½" Diam. x 1¼" Stroke	42	Non. Rev. Over-Size Spindle	1"	13/16"	No. 3	650	18	12¼"	28	2¾"
4 Cylinders 1 11/16" Diam. x 1 13/16" Stroke	43	Non. Rev. Over-Size Spindle	1 5/16"	1 1/16"	No. 4	280	24	13¼"	42	3⅝"
2 Cylinders 1 11/16" Diam. x 1⅝" Stroke	8	Non. Rev. Close Corner	1¼"	1"	No. 3	225	25	7⅞"	37	1 5/32"

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